# Safety Data Sheet



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|---|---|---|---|
| **Document group:** | 08-1037-4 | **Version number:** | 14.00 |
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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (1907/2006), as amended for GB.

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**1.1. Product identifier**
3M Graphic Remover System

**Product Identification Numbers**
DR-5000-0121-6

7000032948

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses**
Graphic Remover System

**1.3. Details of the supplier of the safety data sheet**

**Address:** 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.
**Telephone:** +44 (0)1344 858 000
**E Mail:** tox.uk@mmm.com
**Website:** www.3M.com/uk

**1.4. Emergency telephone number**
+44 (0)1344 858 000

## SECTION 2: Hazard identification

**2.1. Classification of the substance or mixture**
**The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain**

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

**CLASSIFICATION:**

Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319

For full text of H phrases, see Section 16.

**2.2. Label elements**
**The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain**

**SIGNAL WORD**
WARNING.

**Symbols**
GHS07 (Exclamation mark) |

**Pictograms**

**HAZARD STATEMENTS:**

| | |
|---|---|
| H319 | Causes serious eye irritation. |

**PRECAUTIONARY STATEMENTS**

**Response:**

| | |
|---|---|
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

**Notes on labelling**
Updated per Regulation (EC) No. 648/2004 as amended for Great Britain on detergents.

**2.3. Other hazards**

May cause thermal burns.
This material does not contain any substances that are assessed to be a PBT or vPvB

## SECTION 3: Composition/information on ingredients

**3.1. Substances**
Not applicable

**3.2. Mixtures**

| Ingredient | Identifier(s) | % | Classification according to Regulation (EC) No. 1272/2008 [CLP], as amended for GB |
|---|---|---|---|
| Dimethyl glutarate | (CAS-No.) 1119-40-0<br>(EC-No.) 214-277-2 | 30 - 60 | Substance not classified as hazardous |
| Dimethyl adipate | (CAS-No.) 627-93-0<br>(EC-No.) 211-020-6 | 10 - 30 | Eye Irrit. 2, H319 |
| Dimethyl succinate | (CAS-No.) 106-65-0<br>(EC-No.) 203-419-9 | 10 - 30 | Eye Irrit. 2, H319 |

| | | | |
|---|---|---|---|
| Hydroxypropyl methyl cellulose | (CAS-No.) 9004-65-3 | 1 - 15 | Substance not classified as hazardous |
| methanol | (CAS-No.) 67-56-1<br>(EC-No.) 200-659-6<br>(UK REACH-No.) 01-2119433307-44 | < 0.5 | Flam. Liq. 2, H225<br>Acute Tox. 3, H331<br>Acute Tox. 3, H311<br>Acute Tox. 3, H301<br>STOT SE 1, H370 |

Please see section 16 for the full text of any H statements referred to in this section

**Specific Concentration Limits**

| Ingredient | Identifier(s) | Specific Concentration Limits |
|---|---|---|
| methanol | (CAS-No.) 67-56-1<br>(EC-No.) 200-659-6<br>(UK REACH-No.) 01-2119433307-44 | (C >= 10%) STOT SE 1, H370<br>(3% =< C < 10%) STOT SE 2, H371 |

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

**Inhalation**
Remove person to fresh air. If you feel unwell, get medical attention.

**Skin contact**
Immediately flush skin with large amounts of cold water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Cover affected area with a clean dressing. Get immediate medical attention.

**Eye contact**
Immediately flush eyes with large amounts of water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Get immediate medical attention.

**If swallowed**
Rinse mouth. If you feel unwell, get medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**
The most important symptoms and effects based on the GB CLP classification include:
Serious irritation to the eyes (significant redness, swelling, pain, tearing, and impaired vision).

**4.3. Indication of any immediate medical attention and special treatment required**
Not applicable

## SECTION 5: Fire-fighting measures

**5.1. Extinguishing media**
Use a fire fighting agent suitable for the surrounding fire.

**5.2. Special hazards arising from the substance or mixture**
None inherent in this product.

**Hazardous Decomposition or By-Products**

| Substance | Condition |
|---|---|
| formaldehyde | During combustion. |
| Carbon monoxide | During combustion. |
| Carbon dioxide. | During combustion. |
| Irritant vapours or gases. | During combustion. |

**5.3. Advice for fire-fighters**
No special protective actions for fire-fighters are anticipated.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**
Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

**6.3. Methods and material for containment and cleaning up**
Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible.

**6.4. Reference to other sections**
Refer to Section 8 and Section 13 for more information

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
Avoid skin contact with hot material. For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators…) as required.

**7.2. Conditions for safe storage including any incompatibilities**
Store away from acids. Store away from strong bases. Store away from oxidising agents.

**7.3. Specific end use(s)**
See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**

**Occupational exposure limits**
If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available

for the component.

| Ingredient | CAS Nbr | Agency | Limit type | Additional comments |
|---|---|---|---|---|
| methanol | 67-56-1 | UK HSC | TWA:266 mg/m3(200 ppm);STEL:333 mg/m3(250 ppm) | SKIN |

UK HSC : UK Health and Safety Commission
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

**Biological limit values**
No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

**8.2. Exposure controls**

**8.2.1. Engineering controls**
No engineering controls required.

**8.2.2. Personal protective equipment (PPE)**

**Eye/face protection**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Indirect vented goggles.

*Applicable Norms/Standards*
Use eye protection conforming to EN 166

**Skin/hand protection**
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. No chemical protective gloves are required. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.
Gloves made from the following material(s) are recommended:

| Material | Thickness (mm) | Breakthrough Time |
|---|---|---|
| Butyl rubber. | 0.5 | =>8 hours |
| Polymer laminate | >0.30 | =>8 hours |

The glove data presented are based on the substance driving dermal toxicity and the conditions present at the time of testing. Breakthrough time may be altered when the glove is subjected to use conditions that place additional stress on the glove.

*Applicable Norms/Standards*
Use gloves tested to EN 374

**Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

*Applicable Norms/Standards*
Use a respirator conforming to EN 140 or EN 136

**Thermal hazards**
Wear heat insulating gloves, indirect vented goggles, and a full face shield when handling hot material to prevent thermal burns.

*Applicable Norms/Standards*
Use gloves tested to EN 407

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Liquid. |
| **Colour** | Off-White |
| **Odor** | Slight Ester |
| **Odour threshold** | *No data available.* |
| **Melting point/freezing point** | *Not applicable.* |
| **Boiling point/boiling range** | 107.2 ºC |
| **Flammability** | Not applicable. |
| **Flammable Limits(LEL)** | *Not applicable.* |
| **Flammable Limits(UEL)** | *Not applicable.* |
| **Flash point** | No flash point |
| **Autoignition temperature** | *No data available.* |
| **Decomposition temperature** | *No data available.* |
| **pH** | *substance/mixture is non-polar/aprotic* |
| **Kinematic Viscosity** | 83,744 mm²/sec |
| **Water solubility** | *No data available.* |
| **Solubility- non-water** | *No data available.* |
| **Partition coefficient: n-octanol/water** | *No data available.* |
| **Vapour pressure** | approximately 1,066.6 Pa [@ 25 ºC ] |
| **Density** | 1 - 1.03 g/ml |
| **Relative density** | 1 - 1.03 [*Ref Std:*WATER=1] |
| **Relative Vapour Density** | *No data available.* |
| **Particle Characteristics** | *Not applicable.* |

**9.2. Other information**

**9.2.2 Other safety characteristics**

| | |
|---|---|
| **EU Volatile Organic Compounds** | *No data available.* |
| **Evaporation rate** | *No data available.* |
| **Percent volatile** | 94 - 97 % weight |

## SECTION 10: Stability and reactivity

**10.1 Reactivity**
This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

**10.2 Chemical stability**
Stable.

**10.3 Possibility of hazardous reactions**
Hazardous polymerisation will not occur.

**10.4 Conditions to avoid**
None known.

**10.5 Incompatible materials**
Strong acids.
Strong bases.
Strong oxidising agents.

**10.6 Hazardous decomposition products**

| Substance | Condition |
|---|---|
| None known. | |

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

**The information below may not agree with the material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from 3M assessments.**

**11.1. Information on hazard classes as defined in the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain.**

**Signs and Symptoms of Exposure**

**Based on test data and/or information on the components, this material may produce the following health effects:**

**Inhalation**
Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

**Skin contact**
Thermal burns: Signs/symptoms may include intense pain, redness and swelling, and tissue destruction. Contact with the skin during product use is not expected to result in significant irritation.

**Eye contact**
Thermal burns: Signs/symptoms may include severe pain, redness and swelling, and tissue destruction. Moderate eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Ingestion**
Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

**Additional Health Effects:**

**Reproductive/Developmental Toxicity:**
Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

**Toxicological Data**
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

## Acute Toxicity

| Name | Route | Species | Value |
|---|---|---|---|
| Overall product | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Inhalation-Vapour(4 hr) | | No data available; calculated ATE >50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Dimethyl glutarate | Dermal | similar compounds | LD50 > 2,000 mg/kg |
| Dimethyl glutarate | Inhalation-Dust/Mist (4 hours) | similar compounds | LC50 > 11 mg/l |
| Dimethyl glutarate | Ingestion | similar compounds | LD50 > 5,000 mg/kg |
| Dimethyl adipate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Dimethyl adipate | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Dimethyl adipate | Inhalation-Dust/Mist (4 hours) | similar compounds | LC50 > 11 mg/l |
| Dimethyl succinate | Dermal | Rat | LD50 > 2,000 mg/kg |
| Dimethyl succinate | Ingestion | Rat | LD50 6,892 mg/kg |
| Dimethyl succinate | Inhalation-Dust/Mist (4 hours) | similar compounds | LC50 > 11 mg/l |
| Hydroxypropyl methyl cellulose | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Hydroxypropyl methyl cellulose | Ingestion | | LD50 estimated to be > 5,000 mg/kg |
| methanol | Dermal | | LD50 estimated to be 1,000 - 2,000 mg/kg |
| methanol | Inhalation-Vapour | | LC50 estimated to be 10 - 20 mg/l |
| methanol | Ingestion | | LD50 estimated to be 50 - 300 mg/kg |

ATE = acute toxicity estimate

## Skin Corrosion/Irritation

| Name | Species | Value |
|---|---|---|
| Dimethyl glutarate | similar compounds | No significant irritation |
| Dimethyl adipate | Rabbit | No significant irritation |
| Dimethyl succinate | Rabbit | No significant irritation |
| methanol | Rabbit | Mild irritant |

## Serious Eye Damage/Irritation

| Name | Species | Value |
|---|---|---|
| Dimethyl glutarate | similar compounds | Mild irritant |
| Dimethyl adipate | Rabbit | Moderate irritant |
| Dimethyl succinate | Rabbit | Moderate irritant |
| methanol | Rabbit | Moderate irritant |

## Skin Sensitisation

| Name | Species | Value |
|---|---|---|
| Dimethyl glutarate | similar compoun | Not classified |

| | | |
|---|---|---|
| | ds | |
| Dimethyl adipate | similar compoun ds | Not classified |
| Dimethyl succinate | Mouse | Not classified |
| methanol | Guinea pig | Not classified |

**Respiratory Sensitisation**

For the component/components, either no data is currently available or the data is not sufficient for classification.

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| Dimethyl glutarate | In vivo | Not mutagenic |
| Dimethyl glutarate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Dimethyl adipate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Dimethyl succinate | In Vitro | Not mutagenic |
| methanol | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| methanol | In vivo | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name | Route | Species | Value |
|---|---|---|---|
| methanol | Inhalation | Multiple animal species | Not carcinogenic |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name | Route | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|
| Dimethyl glutarate | Inhalation | Not classified for development | Rabbit | NOAEL 1 mg/l | during gestation |
| methanol | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,600 mg/kg/day | 21 days |
| methanol | Ingestion | Toxic to development | Mouse | LOAEL 4,000 mg/kg/day | during organogenesis |
| methanol | Inhalation | Toxic to development | Mouse | NOAEL 1.3 mg/l | during organogenesis |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| Dimethyl glutarate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Professio nal judgeme nt | NOAEL Not available | |
| Dimethyl adipate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Professio nal judgeme nt | NOAEL Not available | |
| Dimethyl succinate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Professio nal judgeme | NOAEL Not available | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | nt | | |
| methanol | Inhalation | blindness | Causes damage to organs | Human | NOAEL Not available | occupational exposure |
| methanol | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | not available |
| methanol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL Not available | 6 hours |
| methanol | Ingestion | blindness | Causes damage to organs | Human | NOAEL Not available | poisoning and/or abuse |
| methanol | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |

**Specific Target Organ Toxicity - repeated exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| Dimethyl glutarate | Inhalation | endocrine system \| respiratory system \| hematopoietic system \| liver \| nervous system \| eyes \| kidney and/or bladder | Not classified | Rat | NOAEL 0.4 mg/l | 90 days |
| Dimethyl adipate | Inhalation | respiratory system \| hematopoietic system \| liver \| nervous system \| eyes \| kidney and/or bladder | Not classified | Rat | NOAEL 0.4 mg/l | 90 days |
| Dimethyl succinate | Inhalation | respiratory system \| heart \| skin \| endocrine system \| gastrointestinal tract \| hematopoietic system \| liver \| immune system \| muscles \| nervous system \| eyes \| kidney and/or bladder \| vascular system | Not classified | Rat | NOAEL 1 mg/l | 90 days |
| methanol | Inhalation | liver | Not classified | Rat | NOAEL 6.55 mg/l | 4 weeks |
| methanol | Inhalation | respiratory system | Not classified | Rat | NOAEL 13.1 mg/l | 6 weeks |
| methanol | Ingestion | liver \| nervous system | Not classified | Rat | NOAEL 2,500 mg/kg/day | 90 days |

**Aspiration Hazard**
For the component/components, either no data is currently available or the data is not sufficient for classification.

**Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.**

**11.2. Information on other hazards**

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

## SECTION 12: Ecological information

**The information below may not agree with the material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.**

### 12.1. Toxicity

No product test data available.

| Material | CAS # | Organism | Type | Exposure | Test endpoint | Test result |
|---|---|---|---|---|---|---|
| Dimethyl glutarate | 1119-40-0 | Bacteria | Experimental | 18 hours | EC10 | 62.5 mg/l |
| Dimethyl glutarate | 1119-40-0 | Bluegill | Experimental | 96 hours | LC50 | 30.9 mg/l |
| Dimethyl glutarate | 1119-40-0 | Green algae | Experimental | 72 hours | EC50 | >85 mg/l |
| Dimethyl glutarate | 1119-40-0 | Green algae | Experimental | 72 hours | NOEC | 36 mg/l |
| Dimethyl adipate | 627-93-0 | Green algae | Experimental | 72 hours | ErC50 | >100 mg/l |
| Dimethyl adipate | 627-93-0 | Water flea | Experimental | 48 hours | EC50 | 72 mg/l |
| Dimethyl adipate | 627-93-0 | Green algae | Experimental | 72 hours | NOEC | 12.5 mg/l |
| Dimethyl succinate | 106-65-0 | Activated sludge | Experimental | 3 hours | EC50 | >1,000 mg/l |
| Dimethyl succinate | 106-65-0 | Green algae | Experimental | 72 hours | ErC50 | >100 mg/l |
| Dimethyl succinate | 106-65-0 | Water flea | Experimental | 48 hours | EC50 | >100 mg/l |
| Dimethyl succinate | 106-65-0 | Zebra Fish | Experimental | 96 hours | LC50 | 50 mg/l |
| Dimethyl succinate | 106-65-0 | Green algae | Experimental | 72 hours | NOEC | 100 mg/l |
| Hydroxypropyl methyl cellulose | 9004-65-3 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| methanol | 67-56-1 | Algae or other aquatic plants | Experimental | 96 hours | EC50 | 16.9 mg/l |
| methanol | 67-56-1 | Bay mussel | Experimental | 96 hours | LC50 | 15,900 mg/l |
| methanol | 67-56-1 | Bluegill | Experimental | 96 hours | LC50 | 15,400 mg/l |
| methanol | 67-56-1 | Green algae | Experimental | 96 hours | ErC50 | 22,000 mg/l |
| methanol | 67-56-1 | Sediment organism | Experimental | 96 hours | LC50 | 54,890 mg/l |
| methanol | 67-56-1 | Water flea | Experimental | 48 hours | LC50 | 3,289 mg/l |
| methanol | 67-56-1 | Green algae | Experimental | 96 hours | NOEC | 9.96 mg/l |
| methanol | 67-56-1 | Medaka | Experimental | 8.33 days | NOEC | 158,000 mg/l |
| methanol | 67-56-1 | Water flea | Experimental | 21 days | NOEC | 122 mg/l |
| methanol | 67-56-1 | Activated sludge | Experimental | 3 hours | IC50 | >1,000 mg/l |
| methanol | 67-56-1 | Barley | Experimental | 14 days | EC50 | 15,492 mg/kg (Dry Weight) |
| methanol | 67-56-1 | Redworm | Experimental | 63 days | EC50 | 26,646 mg/kg (Dry Weight) |
| methanol | 67-56-1 | Springtail | Experimental | 28 days | EC50 | 5,683 mg/kg (Dry Weight) |

### 12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Dimethyl glutarate | 1119-40-0 | Experimental Biodegradation | 14 days | BOD | 90 %BOD/ThOD | OECD 301C - MITI test (I) |

| | | | | | | |
|---|---|---|---|---|---|---|
| Dimethyl adipate | 627-93-0 | Analogous Compound Biodegradation | 28 days | Dissolv. Organic Carbon Deplet | 97 %removal of DOC | ISO 7827 Ready Ult Aer Biodeg |
| Dimethyl succinate | 106-65-0 | Experimental Biodegradation | 28 days | CO2 evolution | 74.1 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |
| Hydroxypropyl methyl cellulose | 9004-65-3 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| methanol | 67-56-1 | Experimental Biodegradation | 3 days | Percent degraded | 91 %degraded | |
| methanol | 67-56-1 | Experimental Biodegradation | 14 days | BOD | 92 %BOD/ThOD | OECD 301C - MITI test (I) |
| methanol | 67-56-1 | Experimental Photolysis | | Photolytic half-life (in air) | 35 days (t 1/2) | |
| methanol | 67-56-1 | Experimental Soil Metabolism Aerobic | 5 days | CO2 evolution | 53.4 %CO2 evolution/THCO2 evolution | |

**12.3 : Bioaccumulative potential**

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Dimethyl glutarate | 1119-40-0 | Experimental Bioconcentration | | Log Kow | 0.49 | |
| Dimethyl adipate | 627-93-0 | Experimental Bioconcentration | | Log Kow | 1.4 | OECD 117 log Kow HPLC method |
| Dimethyl succinate | 106-65-0 | Experimental Bioconcentration | | Log Kow | 0.33 | OECD 117 log Kow HPLC method |
| Hydroxypropyl methyl cellulose | 9004-65-3 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| methanol | 67-56-1 | Experimental BCF - Fish | 3 days | Bioaccumulation factor | <4.5 | |
| methanol | 67-56-1 | Experimental Bioconcentration | | Log Kow | -0.77 | |

**12.4. Mobility in soil**

| Material | Cas No. | Test type | Study Type | Test result | Protocol |
|---|---|---|---|---|---|
| Dimethyl adipate | 627-93-0 | Modeled Mobility in Soil | Koc | 10 l/kg | Episuite™ |
| Dimethyl succinate | 106-65-0 | Modeled Mobility in Soil | Koc | 10 l/kg | Episuite™ |
| methanol | 67-56-1 | Experimental Mobility in Soil | Koc | 0.13 l/kg | |

**12.5. Results of the PBT and vPvB assessment**

This material does not contain any substances that are assessed to be a PBT or vPvB

**12.6. Other adverse effects**

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**
Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations

classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

**EU waste code (product as sold)**

20 01 30 Detergents other than those mentioned in 20 01 29.

## SECTION 14: Transportation information

Not hazardous for transportation.

| | Ground Transport (ADR) | Air Transport (IATA) | Marine Transport (IMDG) |
|---|---|---|---|
| **14.1 UN number** | No data available. | No data available. | No data available. |
| **14.2 UN proper shipping name** | No data available. | No data available. | No data available. |
| **14.3 Transport hazard class(es)** | No data available. | No data available. | No data available. |
| **14.4 Packing group** | No data available. | No data available. | No data available. |
| **14.5 Environmental hazards** | No data available. | No data available. | No data available. |
| **14.6 Special precautions for user** | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. |
| **14.7 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code** | No data available. | No data available. | No data available. |
| **Control Temperature** | No data available. | No data available. | No data available. |
| **Emergency Temperature** | No data available. | No data available. | No data available. |
| **ADR Classification Code** | No data available. | No data available. | No data available. |
| **IMDG Segregation Code** | No data available. | No data available. | No data available. |

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Restrictions on the manufacture, placing on the market and use:**
The following substance(s) contained in this product is/are subject to Annex XVII of regulation (EC) 1907/2006, as amended for GB, with regard to restrictions on the manufacture, placing on the market and use when present in certain dangerous conditions. Users of this product are required to comply with the restrictions placed upon it by the aforementioned provision.

| Ingredient | CAS Nbr |
|---|---|
| methanol | 67-56-1 |

Restriction status: listed in UK REACH Annex XVII
Restricted uses: See Annex XVII to Regulation (EC) No 1907/2006 as amended for Great Britain for Conditions of Restriction

**Global inventory status**
Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

**COMAH Regulation, SI 2015/483**
Seveso hazard categories, Annex 1, Part 1
None

Seveso named dangerous substances, Annex 1, Part 2

| Dangerous Substances | Identifier(s) | Qualifying quantity (tonnes) for the application of | |
|---|---|---|---|
| | | Lower-tier requirements | Upper-tier requirements |
| methanol | 67-56-1 | 500 | 5000 |

**Regulation (EU) No 649/2012, as amended for GB**
No chemicals listed

**15.2. Chemical Safety Assessment**
A chemical safety assessment has not been carried out for this substance/mixture in accordance with Regulation (EC) No 1907/2006, as amended for GB.

## SECTION 16: Other information

**List of relevant H statements**

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H311 | Toxic in contact with skin. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H370 | Causes damage to organs. |

**Revision information:**
EU Section 09: pH information information was modified.
GB Section 02: CLP Remark(phrase) information was added.
GB Section 02: Other hazards phrase information was added.
GB Section 04: First Aid - Symptoms and Effects (GB CLP) information was added.
GB Section 04: Information on toxicological effects information was added.
GB Section 12: Classification Warning information was added.
GB Section 15: Chemical Safety Assessment information was added.
GBSDS Section 14 Transport in bulk - Main Heading information was added.
GBSDS Section 14 UN Number information was added.
Section 02: CLP Classification Statements information was deleted.
Section 02: CLP Physical and Health Hazard Statements information was added.
CLP Remark(phrase) information was deleted.
Section 2: H phrase reference information was added.
Label: CLP Classification information was added.
Label: CLP Precautionary - Response information was added.
Label: Graphic information was added.
Label: Signal Word information was added.
Section 2: Other hazards phrase information was deleted.
Section 3: Composition/ Information of ingredients table information was added.
Section 3: Composition/ Information of ingredients table information was deleted.
Section 03: SCL table information was added.
Section 03: SCL table information was deleted.
Section 04: Information on toxicological effects information was deleted.
Section 5: Fire - Extinguishing media information information was modified.
Section 5: Hazardous combustion products table information was modified.
Section 8: Appropriate Engineering controls information information was modified.
Section 8: Eye/face protection information information was modified.
Section 8: glove data value information was added.
Section 8: Personal Protection - Skin/hand information information was modified.
Section 8: Personal Protection - Thermal hazards information information was modified.
Section 8: Respiratory protection - recommended respirators information information was modified.
Section 8: Skin protection - recommended gloves text information was added.
Section 9: Flammability (solid, gas) information information was deleted.
Section 09: Flammability information information was added.
Section 09: Particle Characteristics N/A information was added.
Section 9: Vapour density value information was modified.
Section 11: Acute Toxicity table information was modified.
Section 11: Classification disclaimer information was deleted.
Section 11: GB Classification disclaimer information was added.
Section 11: GB No endocrine disruptor information available warning information was added.
Section 11: Germ Cell Mutagenicity Table information was modified.
Section 11: Health Effects - Eye information information was modified.
Section 11: Health Effects - Skin information information was modified.
Section 11: No endocrine disruptor information available warning information was deleted.
Section 11: Reproductive Toxicity Table information was modified.
Section 11: Serious Eye Damage/Irritation Table information was modified.
Section 11: Skin Corrosion/Irritation Table information was modified.
Section 11: Skin Sensitization Table information was modified.

Section 11: Target Organs - Repeated Table information was modified.
Section 11: Target Organs - Single Table information was modified.
Section 12: 12.6. Endocrine Disrupting Properties information was deleted.
Section 12: 12.6. Other adverse effects information was added.
Section 12: 12.7. Other adverse effects information was deleted.
Section 12: Classification Warning information was deleted.
Section 12: Component ecotoxicity information information was modified.
Section 12: Mobility in soil information information was added.
Prints No Data if Adverse effects information is not present information was deleted.
Section 12: No Data text for mobility in soil information was deleted.
Section 12: No endocrine disruptor information available warning information was added.
Section 12: No endocrine disruptor information available warning information was deleted.
Section 12: Persistence and Degradability information information was modified.
Section 12:Bioccumulative potential information information was modified.
Section 14 Marine transport in bulk according to IMO instruments – Main Heading information was deleted.
Section 14 UN Number information was deleted.
Section 15: Chemical Safety Assessment information was deleted.
Section 15: Restrictions on manufacture ingredients information information was added.
Section 15: Seveso Substance Text information was added.
Section 15: Seveso Substance Text information was deleted.
Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was added.
Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was deleted.
Section 16: Web address information was added.
Section 16: Web address information was deleted.

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**3M SDSs for Great Britain are available at www.3M.com/uk**
For Northern Ireland documents, please contact your 3M representative to obtain a copy.